



# Thermal Batts

Residential Wall and Ceiling Insulation



## Product Description

Tontine Thermal Batts are lightweight products manufactured from thermally bonded polyester fibre, with a high percentage of recycled fibres. As well as being manufactured to comply with AS/NZS 4859.1, Tontine Thermal Batts are non-toxic and user friendly insulation, requiring no specific protective clothing. Tontine Thermal Batts will not corrode or deteriorate over time. The products are white in colour. Physical properties and material safety data can be found on the Tontine Bonded Polyester Products MSDS.

## Applications

Tontine Thermal Batts have been designed to provide a safe and efficient thermal and acoustic insulation for the Australian home owner. Tontine Thermal Batts are ideal for use in walls, ceilings and between floors and correctly installed will improve energy efficiency and reduce greenhouse gas emissions.

## Standard R-Values, Sizes and Packaging ( to fit 450mm stud centres )

R-Value	Length ( mm )	Width ( mm )	Batts Per Pack	M <sup>2</sup> Per Pack	Approx M <sup>2</sup> Coverage
R1.5	1160	430	16	7.98	9.29
R2.0	1160	430	16	7.98	9.29
R2.5	1160	430	12	5.99	6.97
R3.0	1160	430	12	5.99	6.97
R3.5	1160	430	8	3.99	4.64
R4.0	1160	430	8	3.99	4.64

## Standard R-Values, Sizes and Packaging ( to fit 600mm stud centres )

R-Value	Length ( mm )	Width ( mm )	Batts Per Pack	M <sup>2</sup> Per Pack	Approx M <sup>2</sup> Coverage
R1.5	1160	580	16	10.76	12.20
R2.0	1160	580	16	10.76	12.20
R2.5	1160	580	12	8.07	9.15
R3.0	1160	580	12	8.07	9.15
R3.5	1160	580	8	5.38	6.10
R4.0	1160	580	8	5.38	6.10

## Fire Resistance

When tested in accordance with AS1530.3 (1999), "Early Fire Hazard Properties of Materials", exhibits the following characteristics:

Ignitability Index	0
Spread of Flame Index	0
Heat Evolved	0
Smoke Developed Index	0 - 3

## Moisture Resistance

Exposure to an atmosphere of 50°C and 95% relative humidity for 4 days results in less than 0.2% by vol moisture absorption.

## Maximum Service Temperature

The maximum temperature to which Tontine Thermal Batts should be exposed in service is 150°C.



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for more detailed ecological and/or health information on this product refer to [www.ecospecifier.org](http://www.ecospecifier.org)

## Environmental and Health Benefits

Recycled Fibre Content	80% minimum
Volatile Organic Compounds ( VOC's )	No harmful VOC's
Formaldehyde Content	Nil
Phenol Content	Nil
Ammonia Content	Nil
Ozone Depleting Potential ( ODP )	Nil
Chloride Content	Nil
Total Recyclable Content	100%

## How to Specify

The insulation material shall be Tontine Thermal Batts, R1.5, R2.0, R2.5, R3.0, R3.5 or R4.0 as Manufactured by Tontine Insulation.

## General Installation Advice

Tontine Thermal Batts are safe and easy to install in the walls and ceiling. Batts are supplied in two widths to suit standard housing construction, this being 430mm widths for 450mm centres and 580mm for 600mm centres. As the batts are safe and soft, Tontine Thermal Batts are easily torn or cut with a pair of industrial scissors or shears. Off cuts can be used to fill corners crevices and gaps, eliminating any waste. For ceilings, Tontine Thermal Batts are installed by laying them on top of the ceiling between the ceiling joists. A 50mm gap should be allowed around flue pipes, ceiling fans and recessed lights. For walls, the Batts are placed between the wall studs before the plasterboard is put in place. If required, lightly staple or tape insulation into position. No special clothing, gloves or masks required for installation. Allow up to one month for products subjected to compression packing to recover to nominal thickness.

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In most cases product testing has been conducted in laboratory situation under controlled conditions. Site-measured performance may vary due to installation quality and site conditions. Thermal testing has been carried out in accordance with AS/NZS 4859.1, and acoustic testing in accordance with AS1045 or AS1191 in certified reverberation rooms. As these products are subject to constant research and development, we reserve the right to update the contents without notice. Recommendations regarding the use of products are to be taken as a guide only, and the purchaser should independently determine the suitability of a product for the intended application.

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